



**Filename: CBF14LY33WDMV30K**

Manufacturer: Saylite

Luminaire: Recessed mounted, formed steel housing, formed white enamel steel reflectors, translucent white plastic center enclosure.

Luminaire Cat: CBF14LY33WDMV30K

Lamp: 96 white LEDs, two Seoul Semiconductor SMJD-3612048C-XXN1\_R1.1 boards with 48 LEDs each

Ballast Desc: One ERP PKB30W-1050-55-TD LED driver set at 850mA

Lamp Output: Total luminaire Lumens: 4073.4

Max Candela: 1,357.0 at Horizontal: 90°, Vertical: 0.5°

Input Wattage: 33.085

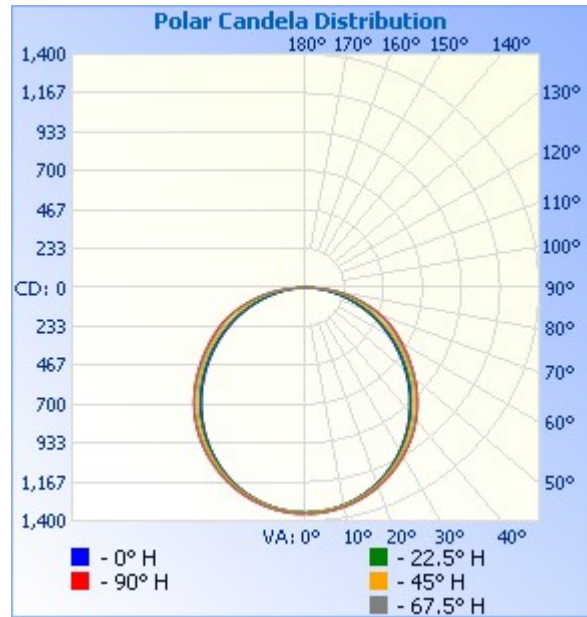
Luminous Opening: Rectangle (L: 46.75", W: 11")

Test: LLIA001463-013A

Test Lab: LightLab International Allentown, LLC

Photometry : Type C

Nema Type: 7 X 7



**Roadway Summary**

Cutoff Classification:	FULL CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	0	
Max Cd, 80 to <90 Deg:	258.0	
	Lumens % Lamp	
Downward Street Side:	2,036.8	50%
Downward House Side:	2,036.8	50%
Downward Total:	4,073.5	100%
Upward Street Side:	0	0%
Upward House Side:	0	0%
Upward Total:	0	0%
Total Lumens:	4,073.5	100%

**Flood Summary**

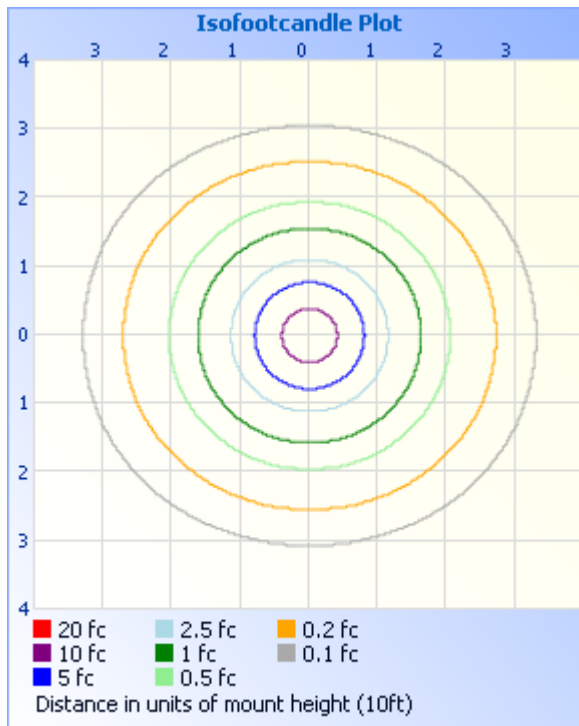
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.9%	4,029.4	170.3	163.5
Beam (50%):	72%	2,932.7	118.9	110.6
Total:	100%	4,072.2		

**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	1,051.0	25.8%
0-40	1,726.5	42.4%
0-60	3,083.8	75.7%
60-90	989.6	24.3%
70-100	467.1	11.5%
90-120	0	0%
0-90	4,073.4	100%
90-180	0	0%
0-180	4,073.4	100%

**Lumens Per Zone**

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	127.7	3.1%	90-100	0	0%
10-20	366.4	9.0%	100-110	0	0%
20-30	556.8	13.7%	110-120	0	0%
30-40	675.5	16.6%	120-130	0	0%
40-50	707.4	17.4%	130-140	0	0%
50-60	650.0	16.0%	140-150	0	0%
60-70	522.5	12.8%	150-160	0	0%
70-80	343.4	8.4%	160-170	0	0%
80-90	123.7	3.0%	170-180	0	0%



	Center Beam fc	Beam Width	
1.7R	467 fc	4.9 ft	5.8 ft
3.3R	124 fc	9.5 ft	11.2 ft
5.0R	54.0 fc	14.4 ft	16.9 ft
6.7R	30.1 fc	19.4 ft	22.7 ft
8.3R	19.6 fc	24.0 ft	28.1 ft
10.0R	13.5 fc	28.9 ft	33.9 ft

■ Vert. Spread: 110.6°  
■ Horiz. Spread: 118.9°

**Coefficients Of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	0	50	30	20	0	50	30	20	0	
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.02	1.02	1.02	1.00	
1	1.08	1.03	.98	.94	1.05	1.01	.96	.83	.96	.93	.90	.87	.92	.89	.87	.87	.89	.86	.84	.82	
2	.98	.89	.82	.76	.95	.87	.80	.69	.84	.78	.73	.73	.80	.76	.71	.71	.77	.73	.70	.68	
3	.89	.78	.69	.63	.86	.76	.68	.58	.73	.66	.61	.61	.70	.65	.60	.60	.68	.63	.59	.56	
4	.81	.69	.60	.53	.79	.67	.59	.50	.65	.57	.52	.52	.62	.56	.51	.51	.60	.55	.50	.48	
5	.75	.61	.52	.45	.72	.60	.51	.43	.58	.50	.44	.44	.56	.49	.44	.44	.54	.48	.43	.41	
6	.69	.55	.46	.39	.67	.54	.45	.38	.52	.45	.39	.39	.51	.44	.38	.38	.49	.43	.38	.36	
7	.64	.50	.41	.35	.62	.49	.41	.34	.48	.40	.34	.34	.46	.39	.34	.34	.45	.38	.34	.32	
8	.59	.46	.37	.31	.58	.45	.37	.30	.43	.36	.31	.31	.42	.35	.30	.30	.41	.35	.30	.28	
9	.55	.42	.33	.28	.54	.41	.33	.27	.40	.33	.28	.28	.39	.32	.27	.27	.38	.32	.27	.25	
10	.52	.39	.30	.25	.51	.38	.30	.25	.37	.30	.25	.25	.36	.29	.25	.25	.35	.29	.25	.23	

**Candela Table - Type C**

	0	22.5	45	67.5	90
0	1350	1350	1350	1350	1350
0.5	1348	1347	1347	1352	1357
1	1348	1346	1347	1352	1357
1.5	1347	1346	1347	1352	1356
2	1347	1346	1346	1351	1356
2.5	1347	1345	1346	1351	1356
3	1346	1345	1345	1351	1355
3.5	1345	1344	1345	1350	1354
4	1344	1343	1344	1349	1353
4.5	1343	1342	1343	1348	1352
5	1342	1341	1342	1347	1351

5.5	1341	1340	1341	1346	1350
6	1339	1338	1339	1345	1349
6.5	1337	1337	1338	1343	1347
7	1336	1335	1336	1342	1346
7.5	1334	1333	1335	1340	1344
8	1332	1331	1333	1339	1343
8.5	1329	1329	1331	1337	1341
9	1327	1327	1329	1335	1339
9.5	1325	1325	1327	1333	1337
10	1322	1322	1325	1331	1335
10.5	1320	1320	1323	1329	1333
11	1317	1317	1320	1327	1330
11.5	1314	1315	1318	1324	1328
12	1311	1312	1315	1322	1326
12.5	1308	1309	1312	1319	1323
13	1304	1306	1309	1316	1320
13.5	1301	1303	1306	1314	1317
14	1298	1299	1303	1311	1315
14.5	1294	1296	1300	1307	1312
15	1291	1292	1297	1304	1309
15.5	1287	1289	1293	1301	1305
16	1283	1285	1289	1298	1302
16.5	1279	1281	1286	1294	1299
17	1275	1277	1282	1291	1295
17.5	1270	1273	1278	1287	1291
18	1266	1269	1274	1283	1288
18.5	1262	1265	1270	1279	1284
19	1257	1260	1266	1275	1280
19.5	1252	1255	1262	1271	1276
20	1248	1251	1257	1267	1272
20.5	1243	1246	1252	1263	1267
21	1237	1241	1248	1258	1263
21.5	1233	1236	1243	1254	1259
22	1227	1230	1238	1249	1254
22.5	1222	1225	1233	1244	1250
23	1217	1220	1228	1240	1245
23.5	1211	1214	1223	1235	1240
24	1205	1209	1218	1230	1235
24.5	1200	1203	1212	1225	1230
25	1194	1198	1207	1219	1225
25.5	1187	1192	1201	1214	1219
26	1182	1186	1196	1209	1214
26.5	1175	1179	1190	1203	1209
27	1169	1173	1184	1198	1203
27.5	1163	1167	1178	1192	1198
28	1156	1161	1172	1187	1192
28.5	1150	1155	1166	1181	1186
29	1143	1148	1160	1175	1181
29.5	1136	1141	1154	1169	1174

30	1129	1134	1147	1163	1169
30.5	1122	1128	1141	1157	1163
31	1115	1121	1134	1150	1156
31.5	1108	1114	1127	1144	1150
32	1100	1107	1121	1138	1144
32.5	1093	1100	1114	1131	1137
33	1086	1092	1107	1125	1131
33.5	1078	1085	1100	1118	1124
34	1070	1078	1093	1112	1118
34.5	1063	1070	1085	1105	1111
35	1055	1062	1078	1098	1104
35.5	1047	1054	1071	1091	1097
36	1039	1047	1064	1084	1091
36.5	1031	1039	1056	1077	1083
37	1022	1031	1049	1070	1076
37.5	1014	1023	1041	1062	1069
38	1006	1015	1033	1055	1061
38.5	997	1007	1026	1048	1054
39	989	998	1018	1040	1046
39.5	980	990	1010	1032	1039
40	971	981	1002	1024	1031
40.5	963	973	994	1017	1023
41	954	964	986	1009	1015
41.5	945	956	978	1001	1007
42	936	947	970	993	999
42.5	927	938	961	984	991
43	918	929	953	976	982
43.5	909	920	944	968	974
44	900	911	936	959	965
44.5	891	902	927	950	957
45	881	893	919	942	948
45.5	872	884	910	933	939
46	862	875	901	924	930
46.5	853	866	892	915	921
47	843	856	883	906	912
47.5	834	847	874	897	903
48	824	838	865	888	894
48.5	815	828	856	879	885
49	805	818	847	869	875
49.5	795	809	838	860	866
50	785	799	828	850	856
50.5	775	790	819	841	846
51	765	780	809	831	837
51.5	755	770	799	821	828
52	745	760	790	812	818
52.5	735	750	780	802	809
53	725	740	770	792	799
53.5	715	730	760	782	790
54	705	721	750	772	780

54.5	695	711	741	763	771
55	684	701	730	753	762
55.5	674	691	720	743	752
56	664	681	710	733	743
56.5	653	671	700	724	733
57	643	661	689	714	724
57.5	633	651	679	704	714
58	622	640	669	694	705
58.5	612	630	658	685	696
59	602	620	648	675	686
59.5	591	610	638	666	677
60	581	600	627	656	668
60.5	570	589	616	647	659
61	560	579	606	637	650
61.5	549	569	595	628	641
62	539	559	585	618	632
62.5	528	548	575	609	623
63	518	538	565	600	614
63.5	508	528	555	591	605
64	497	517	544	581	596
64.5	486	507	534	572	587
65	476	496	524	563	578
65.5	465	486	514	554	570
66	455	475	504	545	560
66.5	444	465	494	536	552
67	434	454	484	527	542
67.5	423	443	475	518	533
68	413	433	465	509	524
68.5	402	422	456	500	514
69	392	412	447	491	504
69.5	382	401	437	481	493
70	371	390	428	472	482
70.5	361	379	419	462	471
71	351	369	410	451	460
71.5	340	358	400	440	449
72	330	347	392	429	438
72.5	320	337	383	418	427
73	309	326	374	407	415
73.5	299	316	365	396	404
74	289	305	355	385	393
74.5	279	295	346	374	381
75	268	285	336	363	370
75.5	258	275	326	352	359
76	248	265	315	340	347
76.5	238	255	305	329	336
77	228	246	294	318	325
77.5	218	236	284	307	314
78	208	227	273	297	303
78.5	198	218	263	285	292

79	188	209	253	275	281
79.5	178	200	242	264	269
80	168	192	232	252	258
80.5	158	183	221	241	247
81	148	174	211	230	236
81.5	139	166	200	219	224
82	129	157	190	208	213
82.5	120	147	179	197	201
83	110	137	168	185	189
83.5	100	128	158	173	177
84	91	119	147	161	165
84.5	82	109	136	149	152
85	72	100	124	136	140
85.5	63	90	113	124	127
86	54	81	101	111	114
86.5	45	71	89	97	100
87	37	61	77	84	86
87.5	28	51	63	70	71
88	20	40	50	56	57
88.5	13	29	37	40	40
89	6	17	22	22	21
89.5	1	6	5	4	3
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152.5	0	0	0	0	0
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171.5	0	0	0	0	0
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173.5	0	0	0	0	0
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174.5	0	0	0	0	0
175	0	0	0	0	0
175.5	0	0	0	0	0
176	0	0	0	0	0
176.5	0	0	0	0	0

177	0	0	0	0	0
177.5	0	0	0	0	0
178	0	0	0	0	0
178.5	0	0	0	0	0
179	0	0	0	0	0
179.5	0	0	0	0	0
180	0	0	0	0	0

### Luminaire Report Summary

IESNA:LM-63-2002  
 [TEST] LLIA001463-013A  
 [TESTLAB] LightLab International Allentown, LLC  
 [ISSUEDATE] 6/3/2021  
 [MANUFAC] Saylite  
 [LUMCAT] CBF14LY33WDMV30K  
 [LUMINAIRE] Recessed mounted, formed steel housing, formed white enamel  
 [MORE] steel reflectors, translucent white plastic center enclosure.  
 [LAMP] 96 white LEDs, two Seoul Semiconductor SMJD-3612048C-XXN1\_R1.1 boards  
 [MORE] with 48 LEDs each  
 [BALLAST] One ERP PKB30W-1050-55-TD LED driver set at 850mA  
 [OTHER] 120.0Vac, 60.00Hz, 0.2786A, 33.09W, 0.990PF, 10.2%THD(i)  
 [OTHER] This test was performed using the absolute method of photometry.  
 [MORE] Lamp lumens value was set to -1

FILE: CREATED USING ABSOLUTE PHOTOMETRY  
 FILE: CANDELA MULTIPLIER: 1  
 FILE: VERTICAL ANGLES: 361, HORIZONTAL ANGLES: 5  
 FILE: COORDINATE SYSTEM: TYPE C  
 FILE: UNIT OF MEASURE: STANDARD  
 FILE: BALLAST FACTOR: 1

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 Reported data calculated from manufacturer's data file, based on IES recommended methods.